



Glenn Research Center



Velocity Field Measurements

I. Laser Doppler Velocimetry

- High spatial and temporal resolution
50 microns; 10 kHz data rate (typical)
- Compact low power systems using semiconductor sources and detectors
- True burst signal processing using hybrid PC/DSP architecture

II. Particle Image Velocimetry

- Instantaneous, full-field acquisition
- In-house developed analysis capability:
Hybrid correlation/tracking with 2-step fuzzy logic processor (PC-based)
- 3-component capability
(stereoscopic viewing)

